

Application No. 10/021,505
Response Dated May 10, 2005
Reply to Office Action of Feb. 10, 2005

PATENT

Agent's Docket No. 12487-US

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:**WE CLAIM:**

Claim 1 (currently amended) A graphical user interface for a network management system equipped with network management logic for managing a communication network via the graphical user interface, the graphical user interface comprising:

- a. ~~network management logic;~~
- b. ~~a human machine interface;~~
- c. ~~a window having at least two view panes displayed displayable simultaneously in on the single human machine graphical user interface window, a first view pane for displaying representations of OSI Layer-3 entities provisioned in the communication network over OSI Layer-2 entities, and a second view pane for selectively and simultaneously displaying representations of OSI Layer-2 entities, the corresponding to at least one OSI Layer-3 entity selected in the first pane entities being provisioned over the OSI Layer-2 entities~~
~~wherein the combination of the displayed information in the at least two view panes provides for presentation of OSI Layer-2 entities corresponding to selected OSI Layer-3 entities.~~

Claim 2 (currently amended) A graphical user interface network management system as claimed in claim 1, wherein the network management system is further adapted to comprises means for querying a managed object database storing connectivity information regarding field installed data transport equipment.

Claim 3 (currently amended) A graphical user interface network management system as claimed in claim 2, wherein querying the managed object database[[,]] the network management system is further adapted to comprises means for extracting from the

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managed object database layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane for display in the second view pane.

Claim 4 (currently amended) A graphical user interface network management system as claimed in claim 1, wherein the network management system is further adapted to comprises means for inspecting a containment hierarchy of instantiated manageable entity objects modeling field installed data transport equipment specifying connectivity information.

Claim 5 (currently amended) A graphical user interface network management system as claimed in claim 4, wherein inspecting the containment hierarchy of instantiated managed entity objects[[,]] the network management system is further adapted to comprise means for extracting from the containment hierarchy of instantiated managed entity objects layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane.

Claim 6 (currently amended) A graphical user interface network management system as claimed in claim 1, wherein the first and second view panes are graphical user interface window further associated with a one of a segmented view window and two corresponding view windows comprises the first view pane for displaying representations of OSI Layer-3 entities provisioned in the communications network over OSI Layer-1 entities, and the second view pane for selectively and simultaneously displaying representations of OSI Layer-1 entities corresponding to at least one OSI Layer-3 entity selected in the first pane.

Claim 7 (currently amended) A graphical user interface for a network management software application comprising:

- a. having network management logic for managing a communications network via the graphical user [[;]]
- b. a human machine interface for display of connectivity information, the graphical user interface comprising:
 - e. a window having at least two view panes displayable simultaneously in via the single human machine graphical user interface window, a first view pane for displaying representations of OSI Layer-3 entities provisioned in the communications network over

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OSI Layer-2 entities, and a second view pane for selectively and simultaneously displaying representations of OSI Layer-2 entities, the corresponding to at least one OSI Layer-3 entity selected in the first pane~~entities being provisioned over the OSI Layer-2 entities, the combination of the displayed information in the at least two view panes provides for presentation of OSI Layer-2 entities corresponding to selected OSI Layer-3 entities.~~

Claim 8 (currently amended) A graphical user interface network management software application~~as claimed in claim 7, wherein the network management software application is further adapted to comprises means for querying a managed object database storing connectivity information regarding field installed data transport equipment.~~

Claim 9 (currently amended) A graphical user interface network management system~~as claimed in claim 8, wherein querying the managed object database[,]) the network management software application is further adapted to comprises means for extracting from the managed object database layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane for display in the second view pane.~~

Claim 10 (currently amended) A graphical user interface network management software application~~as claimed in claim 7, wherein the network management software application is further adapted to comprises means for inspecting a containment hierarchy of instantiated manageable entity objects modeling field installed data transport equipment specifying connectivity information.~~

Claim 11 (currently amended) A graphical user interface network management software application~~as claimed in claim 10, wherein inspecting the containment hierarchy of instantiated manageable entity objects[,]) the network management software application is further adapted to comprises means for extracting from the containment hierarchy of instantiated manageable entity objects layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane.~~

Claim 12 (currently amended) A graphical user interface network management software application~~as claimed in claim 7, wherein the graphical user interface window the first and second view panes are further associated with a one of a segmented view~~

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window and two corresponding view windows comprises the first view pane for displaying representations of OSI Layer-3 entities provisioned in the communications network over OSI Layer-1 entities, and the second view pane for selectively and simultaneously displaying representations of OSI Layer-1 entities corresponding to at least one OSI Layer-3 entity selected in the first pane.

Claim 13 (new) A method of managing a communications network in a centralized network management context via a graphical user interface, the method comprising steps of:

- a. displaying in a first pane of a single graphical user interface window representations of OSI Layer-3 entities provisioned in the communications network over OSI Layer-2 entities; and
- b. simultaneously and selectively displaying in a second pane of the single graphical user interface window representations of OSI Layer-2 entities corresponding to at least one OSI Layer-3 entity selected in the first pane.

Claim 14 (new) A method as claimed in claim 13, further comprising querying a managed object database storing connectivity information regarding field installed data transport equipment.

Claim 15 (new) A method as claimed in claim 14, wherein querying the managed object database, the method further comprises extracting layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane for display in the second view pane.

Claim 16 (new) A method as claimed in claim 13, further comprising inspecting a containment hierarchy of instantiated manageable entity objects modeling field installed data transport equipment specifying connectivity information.

Claim 17 (new) A method as claimed in claim 16, wherein inspecting the containment hierarchy of instantiated managed entity objects, the method further comprising extracting layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane.

Claim 18 (new) A method as claimed in claim 13, further comprising steps of:

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- a. displaying in the first pane of the single graphical user interface window representations of OSI Layer-3 entities provisioned in the communications network over OSI Layer-1 entities; and
- b. simultaneously selectively displaying in the second pane of the single graphical user interface window representations of OSI Layer-1 entities corresponding to at least one OSI Layer-3 entity selected in the first pane.